

Component Specifications

AXT100 Bodypack Transmitter

Overview

The AXT100 transmitter delivers superior audio performance in a compact, lightweight package. Efficient, ultra-linear RF performance maximizes the number of channels on-air in crowded RF environments. Advanced power management provides extended, rechargeable battery life and highly accurate status metering. ShowLink™ Remote Control enables comprehensive real-time remote control of all transmitter parameters, including real-time frequency adjustments

- Ultra-linear RF performance places more channels on-air in crowded RF environments
- IR Sync function automatically tunes transmitter to the receiver frequency
- Comprehensive real-time remote control of all transmitter parameters when a linked transmitter is within range of a ShowLink Access Point
- Shure lithium-ion rechargeable battery delivers up to 8 hours of runtime from a single charge
- Advanced control menu to adjust frequency and audio settings from the transmitter
- 50 dB of adjustable gain for optimal audio quality
- Lockable user interface prevents accidental or inadvertent changes to controls once settings are made
- Compatible with all Shure wireless microphones that have a TA4F connector.
- LEMO connector version (AXT100LEMO3) available for use with LEMO connector microphones

Product Specifications (subject to change)

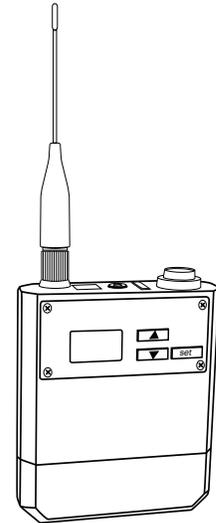
RF Carrier Frequency Range	470–814 MHz Note: varies by region
Working Range	Under typical conditions: 150 m (500 ft) Line of Sight, outdoors for a single system: 500 , (1600 ft) Note: Actual range depends on RF signal absorption, reflection and interference.
Audio Frequency Response	40 – 18 kHz (+1, -3 dB) Note: Dependent on microphone type
RF Tuning Step Size	25 kHz
Modulation (45 kHz max. deviation)	FM, Audio Reference Companding with pre- and de-emphasis
Signal-to-Noise Ratio (SNR)	> 113 dB (A-weighted) @1% THD
Total Harmonic Distortion (45 kHz max. deviation)	<0.3%, A-weighted, typical
System Audio Polarity	Positive pressure on microphone diaphragm (or positive voltage applied to tip of WA302 phone plug) produces positive voltage on pin 2 (with respect to pin 3 of low-impedance output) and the tip of the high impedance 1/4-inch output.
Gain Adjustment Range	-10 to +40 dB (in 1 dB steps)
Battery Type	Shure AXT910 (Rechargeable Li-Ion)
Battery Life	Up to 8 hours (low power mode)
Dimensions	77 mm x 66 mm x 17 mm (3.0 in. x 2.6 in. x 0.7 in.) H x W x D, (with AXT910 battery)
Weight	146.6 g (5.2 oz.), with batteries
Housing	Cast aluminum
Operating Temperature Range	-18°C (0°F) to 63°C (145°F) Note: Battery characteristics may limit this range.
Storage Temperature Range	-29°C (-20°F) to 74°C (165°F) Note: Battery characteristics may limit this range.
Audio Input	
Connector	4-Pin male mini connector (TA4M), 3-Pin male mini connector (LEMO); See drawing for details
Configuration	Unbalanced
Impedance	1 MΩ
Maximum Input Level (1 kHz at 1% THD)	Gain setting: -10 to +9 dB: 12.5 dBu +10 to +19 dB: -2.5 dBu +20 to +40 dB: -7.5 dBu
RF Output	
Connector	SMA (UHF and ShowLink); Shell=Ground, Center=Signal
Antenna Type	AXT642 Bodypack Dual Band Antenna(integrated helical and 1/4 wave)
Power	See Frequency Range and Output Power table
Impedance	50 Ω
ShowLink	
Network Type	IEEE 802.15.4
Frequency Range	2.40 to 2.4835 GHz (16 Channels)
RF Output Power	10 dBm (ERP)

Included Components

AXT910	Bodypack rechargeable lithium-ion battery (2)
AXT642	Dual-band flexible antenna
WA340	Threaded TAF4 adapter
WA610	Transmitter carrying case
26A13	Zipper bag
44A12547	Belt clip

Optional Accessories

AXT910	Bodypack rechargeable lithium-ion battery (2)
AXT652	Y-Cable for bodypack transmitters
AXT652LEMO3	LEMO Y-cable for bodypack transmitters
AXT642	Dual-band flexible antenna
AXT903	Portable bodypack charging station
AXT913	3-AA Battery Sled for AXT100 bodypack transmitter
WA302	Instrument cable
WA304	Instrument cable with right angle 1/4" connector
WA661	Mute switch for bodypack transmitter
WA662	Mute switch for two bodypack transmitters
44A12547	Replacement belt clip



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Available Frequency Bands

Band	Frequency Range (MHz)	Power (mW)
A24	779 to 806	10
G1	470 to 530	10/100
G12	479 to 530	10/20
G19	470 to 530	2/10
G1E	470 to 530	10/50
G7C	470 to 510	10/50
H12	518 to 565	10/20
H18	518 to 578	2/10
H4	518 to 578	10/100
H4E	518 to 578	10/50
J12	578 to 638	2/10
J5	578 to 638	10/100
J5E	578 to 638	10/50
J5HK	578 to 638	10
JBX	806 to 810	10
K4E	606 to 666	10/50
L20	638 to 698	2/10
L3	638 to 698	10/100
L3E	638 to 698	10/50
M8	666 to 730	10/50
MA24	779 to 806	2/10
MJBX	806 to 810	2/10
P8	710 to 790	10/50
P9	710 to 787	10/50
Q5	740 to 814	10/50
R16	794 to 806	10/50

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